

NASA Technical Memorandum 102887

N91-25341

P-4

NC483657

The Aerospace Plane Design Challenge: Credible Computational Fluid Dynamics Results

Unmeel B. Mehta, Ames Research Center, Moffett Field, California

December 1990



National Aeronautics and
Space Administration

Ames Research Center
Moffett Field, California 94035-1000

THE CFD DESIGN TECHNOLOGY DEVELOPMENT TRIAD

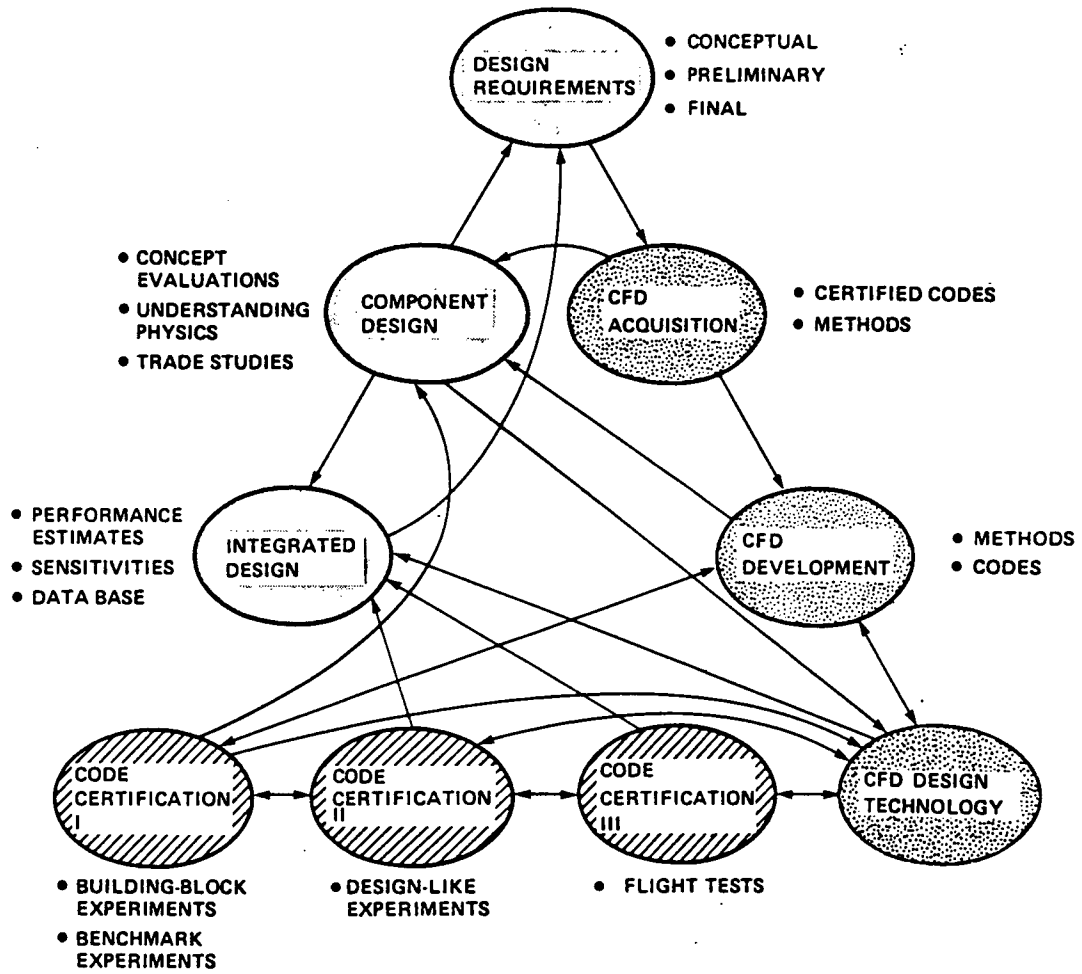


Figure 1: The CFD design technology development triad (from Ref. 14).

COMPUTATIONAL FLUID DYNAMICS VALIDATION VIS-À-VIS MEASURABLE FLUID DYNAMICS VALIDATION

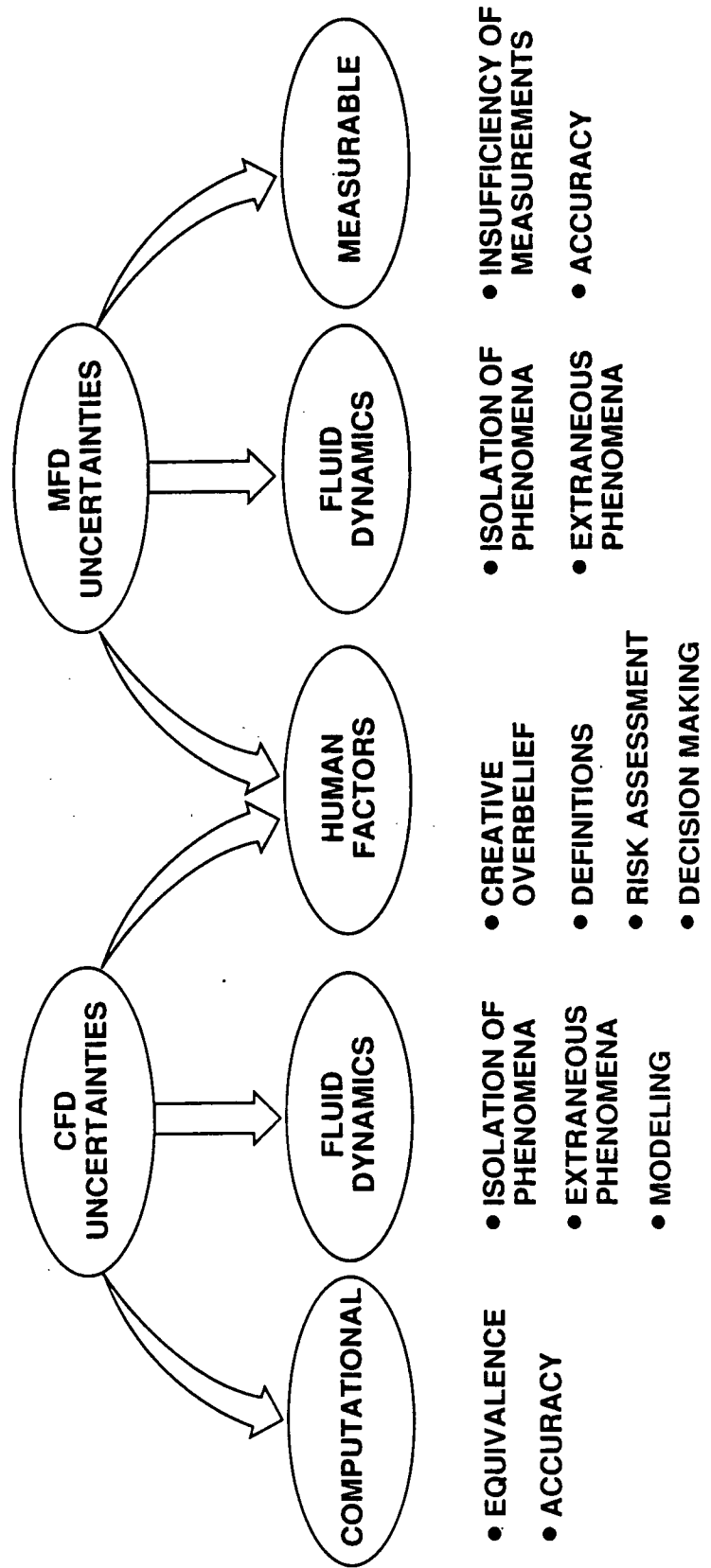


Figure 2: Computational fluid dynamics validation vis-à-vis measurable fluid dynamics validation.